

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Applicant(s):** Jinsheng Wang and Joe Zheng  
**Title:** METHOD AND SYSTEM FOR TRACKING SCREEN ACTIVITIES  
**Serial No.:** 10/731,277  
**Filing Date:** 12/08/2003  
**Examiner:** Wen Tai Lin  
**Group Art Unit:** 2154  
**Docket No:** 8892000-6C1

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October 3, 2006

Mail Stop: No-Fee Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## Response to First Office Action

Dear Sir:

In response to the Office Action dated 06/07/2006, the Applicant respectfully requests the Examiner to enter the amendments and consider the remarks as follows:

**AMENDMENTS TO THE CLAIMS** are reflected in the listing of claims which begins on page 2 of this Amendment.

**REMARKS/ARGUMENTS** begin on page 7 of this Amendment.

## In the Claims

Please amend pending claims as follows:

1. (*Currently amended*) A method for tracking predetermined activities for a terminal display, the method comprising:

providing a series of displays on the terminal display, at least some of the displays requiring interactions from a user and being referred to as interactive displays;

capturing an entire image of one of the interactive displays only after the one of the interactive displays has been altered with at least one interaction from the user in accordance with a predetermined requirement, wherein the entire image is in pixel format;

~~saving the captured display into an image;~~

continuing to successively display a next one of the interactive displays till a last one of the interactive displays, wherein ~~each of the interactive displays is captured in a sequence of being displayed, and each of the captured images displays~~ some of the interactive displays includes at least one interaction from the user in accordance with a predetermined requirement; and

sending at least some of the captured images ~~displays to another computing device server.~~

2. (*Original*) The method of claim 1 further comprising generating one or more attributes to be associated with each of the captured displays.
3. (*Original*) The method of claim 2, wherein the one or more attributes includes an alphanumeric character string.

4.     *(Original)* The method as recited in claim 3, wherein the alphanumeric character string is encrypted.
5.     *(Original)* The method as recited in claim 3, wherein the alphanumeric character string pertains to a time at which any of the interactive displays was altered.
6.     *(Original)* The method as recited in claim 2, wherein the one or more attributes include one or more of (1) a time stamp, (2) an electronic signature, (3) terminal device location information, (4) information relating to the terminal display, (5) user information, (6) relative sequence index, or (7) system provided information.
7.     *(Currently amended)* The method as recited in claim 1, wherein the interaction includes one or more of (i) an entry by the user, and (ii) a click by the user ~~and (iii) a word or phrase.~~
8.     *(Original)* The method as recited in claim 1, wherein the sending of at least some of the captured displays to the server includes compressing the captured displays into a file according to a compression scheme.
9.     *(Currently amended)* A method for tracking predetermined activities for a terminal display, the method comprising:
  - uploading a file to a display device upon receiving a playback request, wherein the file includes a representation of a series of captured screen displays of a terminal display associated with a user, wherein each of the screen displays reflects at least an entry change ~~entered~~

by the user ~~requested in the each of the screen displays in comparing with an original version thereof~~; and

displaying the series of screen displays on the display device in a specified order to show how the user has altered each of the screen displays.

10. (*Original*) The method as recited in claim 9, where the series of screen displays is analyzed by an OCR.

11. (*Currently amended*) A terminal device for tracking predetermined activities therewith, the terminal device comprising:

a display screen;

a memory space provided with data, the data configured to generate a series of displays for the display screen, at least some of the displays requiring interactions from a user and being referred to as interactive displays;

an embedded module automatically triggered to capture a portion of the data in the memory space corresponding to one of the interactive displays after the one of the interactive displays has been altered with at least one interaction from the user in accordance with a predetermined requirement, wherein the embedded module is configured to save the portion of the data and forward a file including the portion of the data to a server.

12. (*Original*) The terminal device of claim 11, wherein the file includes other captured data related to some of the interactive displays

13. (*Original*) The terminal device of claim 12, wherein the embedded module includes generating one or more attributes to be associated with the portion of the data.

14. (*Original*) The terminal device of claim 13, wherein the one or more attributes includes an alphanumeric character string.

15. (*Original*) The terminal device of claim 14, wherein the alphanumeric character string is encrypted.

16. (*Original*) The terminal device of claim 14, wherein the alphanumeric character string pertains to a time at which any of the interactive displays was altered.

17. (*Original*) The terminal device of claim 14, wherein the one or more attributes include one or more of (1) a time stamp, (2) an electronic signature, (3) terminal device location information, (4) information relating to the terminal display, (5) user information, (6) relative sequence index, or (7) system provided information.

18. (*Original*) The terminal device of claim 11, wherein the interaction includes one or more of (i) an entry by the user, (ii) a click by the user and (iii) a word or phrase.

19. (*Original*) The terminal device of claim 11, wherein the embedded module includes compressing the portion of the data according to a compression scheme.

20. (Original) The terminal device of claim 11, wherein the file pertains to image pixels and is subjects to be analyzed by an OCR engine at the server.

## **Remarks**

Claims 1-20 were submitted for examination. However, only Claims 1-9 were examined. The Applicant respectfully requests that pending claims 1-20 be examined.

In this Office Action, Claim 1 is rejected under 35 USC 102(b) as being anticipated by Drete et al (US Patent No.: 5,388,252, hereinafter "Drete"), and Claims 1-3, 5-7 and 9 are rejected under 35 USC 102(b) as being anticipated by Olah et al (US Patent No.: 6,446,119, hereinafter "Olah"). In the foregoing amendments, claims 1, 7, 9 and 11 have been amended. No new matters are introduced. Claims 1-20 are pending. Reconsideration of the pending claims is respectfully requested based on the amendments and in view of the following remarks.

### **Double Patenting Rejection**

Claim 1 is rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claim 1 of US Pat. No.:6,662,226. The Applicant respectfully disagrees with the interpretation by the Examiner on claim 1 in the instant application and US Pat. No.:6,662,226 as both are claiming two different aspects of the invention. Nevertheless the Applicant is ready to submit a terminal disclaimer.

### **Claim Rejections under 35 USC 102**

The Applicant respectfully traverses the rejections. A cited prior art reference anticipates a claimed invention under 35 USC 102 only if every element of the claimed invention is identically shown in the single reference, arranged as they are in the claim. MPEP 2131; in re Bond, 910 F.2d 831, 832, 15 USPQ2d 1566, 1567 (Fed. Cir. 1990). Each and every limitation of the claimed invention is significant and must be found in the single cited prior reference. In re Donohue, 766 F.2d 531, 534, 266 USPQ 619, 621 (Feb. Cir. 1985). As set forth more fully below, neither Drete nor Olah discloses or suggests each and every element of the claimed invention.

In particular, the amended Claim 1 recites:

providing a series of displays on the terminal display, at least some of the displays requiring interactions from a user and being referred to as interactive displays;

capturing an entire image of one of the interactive displays only after the one of the interactive displays has been altered with at least one interaction from the user in accordance with a predetermined requirement, wherein the entire image is in pixel format; continuing to successively display a next one of the interactive displays till a last one of the interactive displays, wherein each of captured images some of the interactive displays includes at least one interaction from the user in accordance with a predetermined requirement; and sending at least some of the captured images to another computing device.

*(emphasis added)*

Figures 3A to 3G of the instant application illustrate representative screen displays that are captured respectively when each of the screen displays is altered by a user. "Capturing" is specifically recited as an entire image of a display and in pixel format.

In contrast, Drete teaches remote diagnosis and monitoring systems. To control a remote system, there is no need to capture an entire image of a display screen, which is evidenced in lines 8-10 of Col. 8 "*After the initial full screen image is transmitted, then for each screen refresh only the differences are sent*". Accordingly, it is concluded that Drete fails to teach nor suggest the combined features recited in the once-amended Claim 1.

Olah teaches about monitoring computer usage by capturing displays of a target computer at discrete moments regardless that computer has any activities or not. Olah specifically states between lines 26 - 31 of Col. 6, "*The 'Manual Setup' option, 20, specifies that the operator will determine at what discrete moments the monitoring routine will execute screen captures and save these screen captures in an activity log. After selecting options 10 and 20, the operator must specify when the screen captures are to occur.*" In other words, even if there is no any activity on a display, Olah still captures the display, which contradicts what is recited in Claim 1 of this instant application.



Accordingly, it is believed that the once-amended Claim 1 is allowable over the cited references Dreste and Olah, viewed alone or in combination. The Applicants respectfully request the Examiner to reconsider Claims 1-9.

Regarding the Official Notices on claims 4 and 8, the Applicant respectfully disagrees with the Examiner when these two claims are viewed together with the once-amended Claim 1. The features in the dependent claims 4 and 8 should not be examined alone. These features are distinguishable when combined with the once-amended Claim 1.

Although Claims 10-20 were not examined, the Applicants amended independent claim 11 and would like to point out that one of the distinguished features in Claim 11 over Dreste and Olah is "an embedded module automatically triggered to capture a portion of the data in the memory space corresponding to one of the interactive displays after the one of the interactive displays has been altered with at least one interaction from the user". It is believed none of Dreste and Olah has taught or suggested such features.

In view of the above amendments and remarks, it is now believed that the pending claims 1-20 shall be in condition for allowance over the cited references. Therefore, it is believed that the entire application is now in condition for allowance, early and favorable action is being respectfully solicited.

If there are any issues remaining which the Examiner believes could be resolved through either a Supplementary Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at (408)777-8873.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, Washington, D.C. 20231,

**E-filed**

on 10/3/2006, 2006.

/joe zheng/  
Joe Zheng

Dated this 3rd day of October, 2006

/joe zheng /  
Joe Zheng